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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-01-16-53** **Date: 08-07-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and Other Works at Indira Canteen at Abbigere in Ward No.12 Shettyhalli Sub Division
Agency	:	Inchara Construction #60, 4th Cross Nandinagara Hesaraghatta Main Bangalore-90
Customer's Reference	:	EE/DD/LOA/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-2017
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-07-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	156	242	24.2	75.8	60-95	75-100	85-100	95-100
4	1.18 mm	166	408	40.8	59.2	30-70	55-90	75-100	90-100
5	600 micron	178	586	58.6	41.4	15-34	35-59	60-79	80-100
6	300 micron	185	771	77.1	22.9	5-20	8-30	12-40	15-50
7	150 micron	156	927	92.7	7.3	0-10	0-10	0-10	0-15
8	Pan	73	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-16-53** **Date: 08-07-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and Other Works at Indira Canteen at Abbigere in Ward No.12 Shettyhalli Sub Division
Agency	:	Inchara Construction #60, 4th Cross Nandinagara Hesaraghatta Main Bangalore-90
Customer Reference	:	EE/DD/LOA/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-2017
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-07-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	256	256	5.1	94.9	90-100
3	10 mm	2456	2712	54.2	45.8	25-55
4	4.75 mm	1889	4601	92.0	8.0	0-10
5	Pan	399	5000	100	0	–

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-01-16-53** **Date: 20-07-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and Other Works at Indira Canteen at Abbigere in Ward No.12 Shettyhalli Sub Division
Agency	:	Inchara Construction #60, 4th Cross Nandinagara Hesaraghatta Main Bangalore-90
Customer's Reference	:	EE/DD/LOA/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-07-2017
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	17-07-2017

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	32.520	1972.8	2003.9	Not less than 1800Kg/m^3
2	401	200	201	16120	32.360	2007.4		
3	402	201	202	16322	33.16	2031.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.350	32.460	5.82	5.67	Shall not be more than 10% by mass
2	34.480	32.610	5.73		
3	34.420	32.640	5.45		

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2017

Lab ID	:	**CP-2019-01-16-53**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and Other Works at Indira Canteen at Abbigere in Ward No.12 Shettyhalli Sub Division
Agency	:	Inchara Construction #60, 4th Cross Nandinagara Hesaraghatta Main Bangalore-90
Customer's Reference	:	EE/DD/LOA/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-2017
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2017	18/07/2017	149.60 X 149.84 X 150.17	22416	**8.186**	273.8	12.2	12.2
2	PCC	M15	11/07/2017	18/07/2017	151.73 X 150.67 X 151.49	22861	**8.023**	278.5	12.2	
3	PCC	M15	11/07/2017	18/07/2017	149.97 X 151.13 X 149.62	22665	**8.371**	277.9	12.3	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-16-53** **Date: 18/07/2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and Other Works at Indira Canteen at Abbigere in Ward No.12 Shettyhalli Sub Division
Agency	:	Inchara Construction #60, 4th Cross Nandinagara Hesaraghatta Main Bangalore-90
Customer's Reference	:	EE/DD/LOA/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-07-2017
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/07/2017	18/07/2017	151.46 X 150.78 X 150.12	22838	**8.140**	285.1	12.5	12.2
2	PCC	M15	11/07/2017	18/07/2017	149.01 X 150.73 X 149.81	22461	**8.850**	273.6	12.2	
3	PCC	M15	11/07/2017	18/07/2017	151.76 X 150.03 X 150.17	22769	**8.115**	274.6	12.1	

Note:
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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ ... ಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ...
ಎಸ್.ಎಂ. ... ಪಾಲಿಕೆ
... ಬೆಂಗಳೂರು.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-01-16-53 **Date: 10-07-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and Other Works at Indira Canteen at Abbigere in Ward No.12 Shettyhalli Sub Division
Agency	:	Inchara Construction #60, 4th Cross Nandinagara Hesaraghatta Main Bangalore-90
Customer's Reference	:	EE/DD/LOA/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-2017
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-07-2017
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-16-53** **Date: 10-07-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound Wall and Other Works at Indira Canteen at Abbigere in Ward No.12 Shettyhalli Sub Division
Agency	:	Inchara Construction #60, 4th Cross Nandinagara Hesaraghatta Main Bangalore-90
Customer's Reference	:	EE/DD/LOA/01/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-07-2017
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-07-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5644	5889	39.3	60.7	30-70
4	10 mm	4568	10457	69.7	30.3	10-35
5	4.75 mm	4286	14743	98.3	1.7	0-5
6	Pan	257	15000	100.0	0	---

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